

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): A multilayer structure based on polyamides and graft copolymers having polyamide blocks, said structure comprising, in this order:
 - a) a first layer (1) comprising a polyamide (A) or else a polyamide (A)/polyolefin (B) blend having a polyamide matrix;
 - b) optionally, a tie layer (2a);
 - c) a layer (2) comprising a graft copolymer, said graft copolymer comprising a polyolefin backbone functionalized by an unsaturated monomer (X) and at least one polyamide graft, said graft copolymer being obtained by reaction between a polyamide having an amine end group and the residue of the unsaturated monomer (X) having a functional group capable of reacting with said amine end group of the polyamide, said unsaturated monomer (X) being attached by grafting or copolymerization via its double bond;the layers (1), (2a) and (2) being successive and adhering to one another in their respective contact region.
2. (Previously Presented): A structure according to Claim 1, further comprising a polyamide or a polyolefin layer (3), superposed on layer (2), and optionally further comprising a tie layer (3a) placed between layer (2) and layer (3).
3. (Previously Presented): A structure according to claim 1, wherein said polyolefin backbone comprises an ethylene/alkyl(meth)acrylate copolymer.
4. (Previously Presented): A structure according to claim 1, in which X is an unsaturated carboxylic acid anhydride.

5. (Previously Presented): A structure according to claim 1, wherein said polyolefin backbone contains X, and X is chosen from ethylene/maleic anhydride copolymers and ethylene/alkyl(meth)acrylate/maleic anhydride copolymers.

6. (Previously Presented): A structure according to claim 1, wherein said structure is in the form of a tank, container, bottle, multilayer film, or tube.

7. (Previously Presented): A structure according to Claim 6 in which the layer (2) of graft copolymers having polyamide blocks or the layer (3) forms the inner layer in contact with the stored or transported fluid.

8. (Previously Presented): A structure according to Claim 1, wherein said structure is in the form of a tube for use in a cooling circuit for an internal combustion engine in which the layer (2) of graft copolymers having polyamide blocks or the layer (3) forms the inner layer in contact with the transported fluid.

9. (Withdrawn-Currently Amended): A material in the shape of a tank, container, bottle, film or tube, wherein said material comprises a graft copolymer having polyamide blocks, consisting of a polyolefin backbone and at least one polyamide graft, said graft copolymer comprising a polyolefin backbone functionalized by an unsaturated monomer (X) and at least one polyamide graft, said graft copolymer being obtained by reaction between a polyamide having an amine end group and the residue of the unsaturated monomer (X) having a functional group capable of reacting with said amine end group of the polyamide, said unsaturated monomer (X) being attached by grafting or copolymerization via its double bond.

10. (Previously Presented): A multilayer structure according to Claim 1, comprising said tie layer (2a).

11. (Previously Presented): A structure according to claim 2, comprising said tie layer (3a).

12. (Previously Presented): A structure according to claim 10, further comprising a polyamide or a polyolefin layer (3) superposed on layer (2) and a tie layer (3a) placed between layer (2) and layer (3).

13. (Previously Presented): A structure according to claim 1, wherein said polyolefin backbone is a polyolefin homopolymer or copolymer.

14. (Previously Presented): A structure according to claim 1, wherein X is an unsaturated epoxide, an unsaturated carboxylic acid anhydride, an aliphatic glycidyl ester, an aliphatic glycidyl ether, an alicyclic glycidyl ester or an alicyclic glycidyl ether.

15. (Previously Presented): A structure according to claim 1, wherein the first layer (1) is formed from a polyamide (A)/polyolefin (B) blend having a polyamide matrix.

16. (Previously Presented): A structure according to claim 1, wherein said first layer is formed from PA-6/12, PA-6/6,6, PA-6, PA-6,6, PA-11 or PA-12.

17. (Previously Presented): A structure according to claim 10, wherein said tie layer comprises a functionalized polyolefin or a copolyamide.

18. (Previously Presented): A structure according to claim 11, wherein said tie layer between layer (2) and layer (3) comprises a functionalized polyolefin or a copolyamide.

19. (Withdrawn): A method comprising fabricating a tank, container, bottle, multilayer film, or tube, said method comprising shaping a multilayer structure according to claim 2 such that layer (3) forms the inner layer.

20. (Withdrawn): A method of fabricating a tube for use in a cooling circuit of an internal combustion engine, said method comprising shaping a multilayer structure according to claim 2 such that layer (2) comprises graft copolymers having amide blocks, and either said

ATOCM-0349

layer (2) or layer (3) forms the inner layer of the tube.

21. (Previously Presented): A structure according to claim 1, wherein layer comprises a blend of a polyamide (A) and at least one copolymer having polyamide blocks and polyether blocks.

22. (Previously Presented): A structure according to claim 15, wherein the proportion of polyamide in the polyamide (A)/polyolefin (B) blend is between 40 and 75% by weight.

23. (Previously Presented): A structure according to claim 15, wherein the polyolefin (B) comprises:

(a) a high-density polyethylene, and a blend of a polyethylene (C1) and of a polymer (C2) chosen from elastomers, very low-density polyethylenes and ethylene copolymers, the (C1)/(C2) blend being cografted by an unsaturated carboxylic acid or an unsaturated carboxylic acid anhydride;

(b) polypropylene and a polyolefin resulting from the reaction of a polyamide (C4) with a copolymer (C3) comprising propylene and an unsaturated monomer X, which is grafted or copolymerized;

(c) an EVA, LLDPE, VLDPE or metallocene polyethylene and an ethylene/alkyl (meth)acrylate/maleic anhydride copolymer; or

(d) two functionalized polymers comprising at least 50 mol% of ethylene units and able to react to form a crosslinked phase.